INSTALLATION MANUAL

ADSF UK LTD
AUTOMATIC ENTRANCE SPECIALISTS

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ERREKA
AUTOMATION SYSTEMS / AUTOMATIC DOORS

Sales Line: 08700 434512
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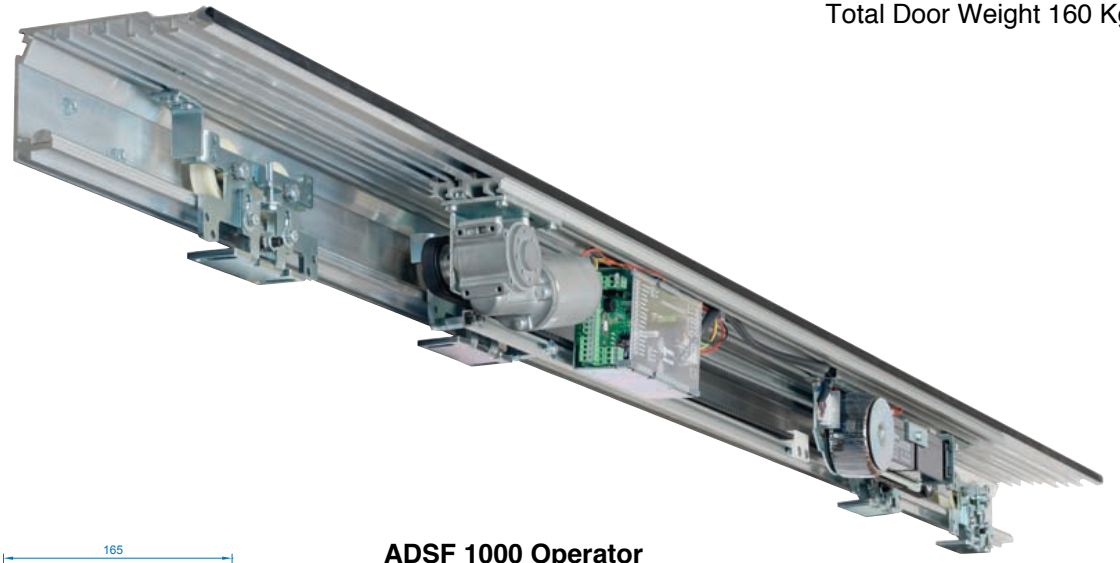
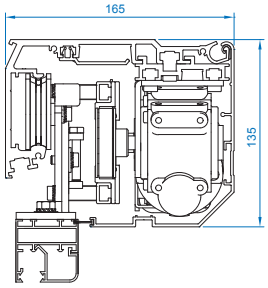
ADSF 1000
Ertain Model

Total Door Weight 160 Kg



ADSF 1000 Operator



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ERREKA

ADSF 1000 INTRODUCTION

ADSF 1000 ERREKA Automatic Doors would like to thank you for placing your trust in us and for choosing one of our products. Please read this installation manual carefully to ensure that the door is correctly installed.

ADSF 1000 ERREKA Automatic Doors in not liable for any possible damage caused by not following the instructions in this installation manual.

ADSF 1000 Operator

CHECK Nº	Rev00	Date	01/07/10

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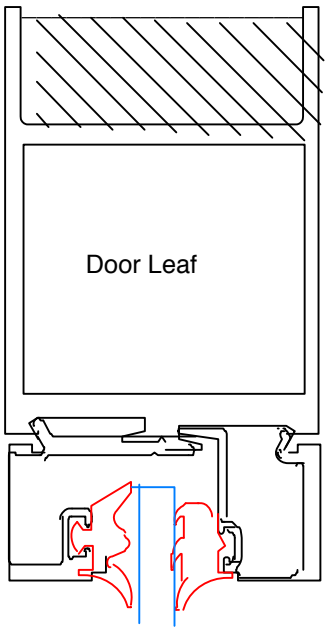

ADSF 1000 Information

In general, all door leafs would normally be manufactured at a height from floor level to the underside of transom + 10mm

In cases where a threshold is fitted, then measurement would be taken from top of threshold to underside of transom + 10mm

WARNINGS FOR THE FITTER–SAFETY INSTRUCTIONS

The importance of this manual **ADSF 1000 Operator**

- Before beginning the installation read this manual duly and follow its instructions. Faliure to follow the instructions could result in accidents and faults.
- Erreka Automatic Doors is not liable for any possible damage caused by not following the instructions in this installation manual.

Intended use

- This operator has been designed to be installed as part of an automatic sliding door system for pedestrians
- Any installation for use different to that indicated is considered inappropriate and dangerous.

Safety Elements

- This operator compiles with all current safety regulations. Follow the instructions for all of the elements used in the installation.
- ADSF Automatic Doors will not accept responsibility for any safety problems or door malfunctions if components not made by ADSF Erreka are used in the installation.

1. KEY TOOLS

DRIL

Ø 7 DRILL BIT

Ø 8.5 DRILL BIT

CROSSHEAD SCREWDRIVER

FLAT SCREWDRIVER

M8 BOLT

Nº4 T-HANDLE ALLEN WRENCH

Nº 13 SOCKET WRENCH

Nº10 SPANNER

Nº13 SPANNER

SPIRIT LEVEL

WIRE STRIPPER

CLAMP

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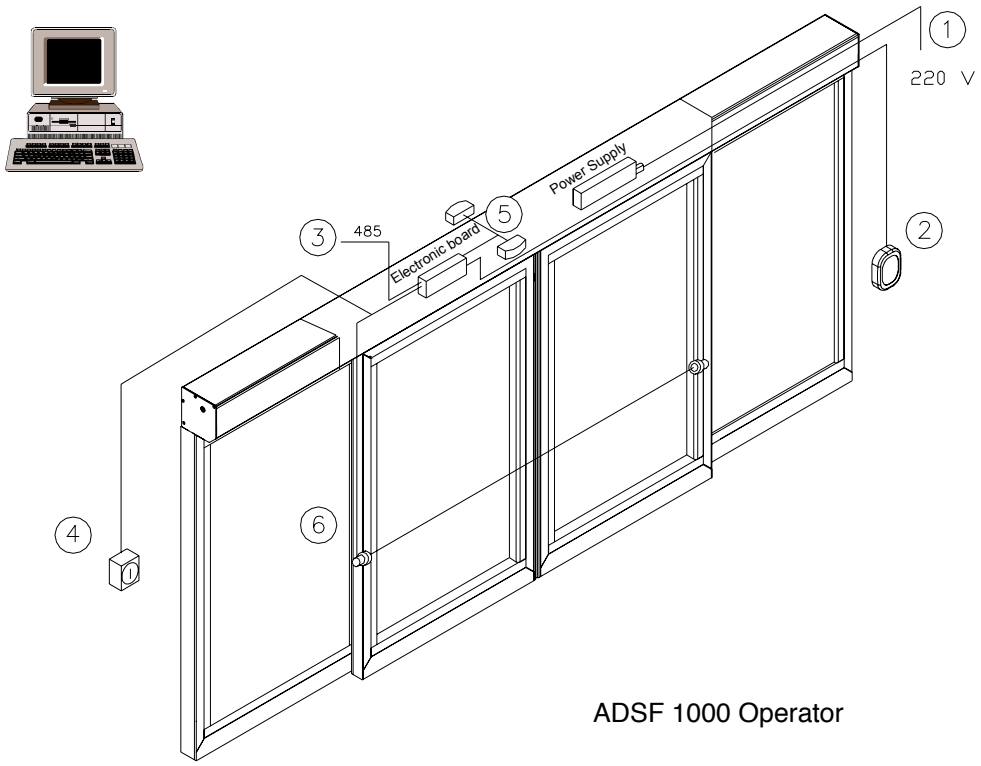
2. ELECTRICAL EQUIPMENT

ADSF 1000 Operator



ADSF 1000 Operator

Nº	DESCRIPTION	CABLES
1	Power supply	4 wire hose
2	Selector	5 wires shielded
3	485 centralised connection line	2 wire
4	Security key	2 wire
5	Radars	4+4 wires
6	Photocells	2+2 wires

3. TECHNICAL FEATURES

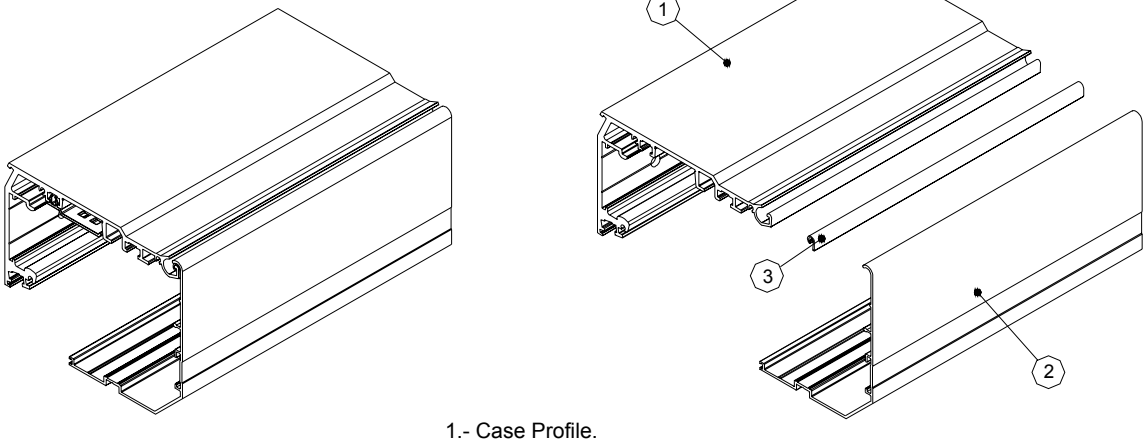
ADSF 1000 Operator

CARACTERISTICS	Operator 1450	Operator 1850
Free passage (2 sliding leaves)	1000-2300mm	1100-3000mm
Free passage (1 sliding leaf)	750-1150mm	1000-1550mm
Max leaf weight (2 leaves)	80 + 80 Kg.	80 + 80 Kg.
Max leaf weight (1 leaf)	120 Kg.	120 Kg.
Max opening speed	0.7 m/s	0.7 m/s
Min opening speed	0.4 m/s	0.4 m/s
Max closing speed	0.5 m/s	0.5 m/s
Min closing speed	0.2 m/s	0.2 m/s
Max closing force	150 N	150 N
Temperature	-20ºC/ +50ºC	-20ºC/ +50ºC
Open door timing	90 seg.	90 seg.
Power suplply (single phase)	220/110 V (single phase)	220/110 V (single phase)
Consumption	100 W	100 W
Battery	Lead (12+12 v)	Lead (12+12 v)

4. ASSEMBLY

ADSF 1000 Operator

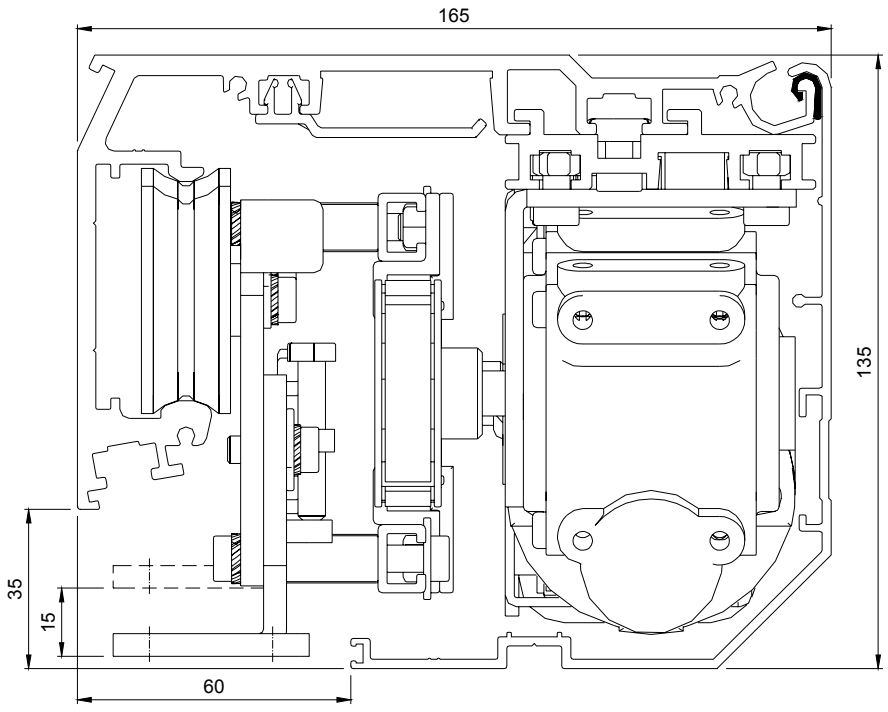
This section explains in detail how to assemble the installation. For your information, we have included below a diagram of the Profiles and the external dimensions of the driving unit.



1.- Case Profile.

2.- Cover Profile.

3.- Anti-vibration rubber.



ADSF 1000 Operator

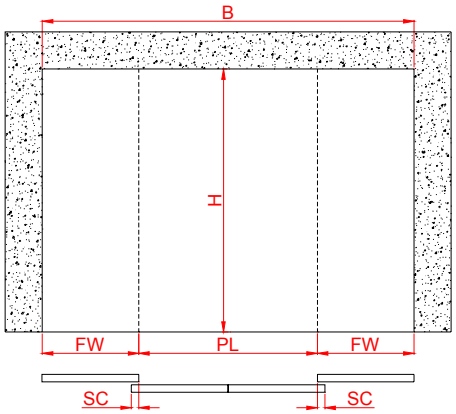
4.1 Structure measurements before installation ADSF 1000 Operator

ADSF 1000 Operator

Measure the dimensions where the door will be installed;

- Clear height (H)
- Total widht (B)
- Define the Free passage widht (PL), Clear height (H), the fixed leaf width (FW) and the length of the case profile (B).

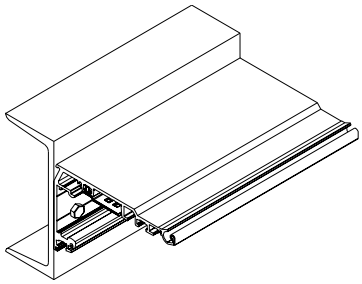
B=2xPL+2xSC +100

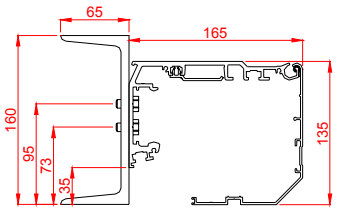


4.2 Fitting the case profile ADSF 1000 Operator

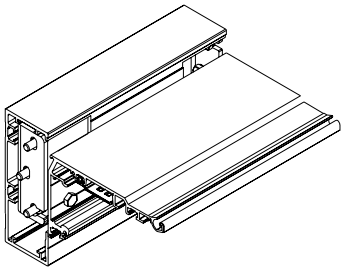
There are differents manners of fitting; ADSF 1000 Operator

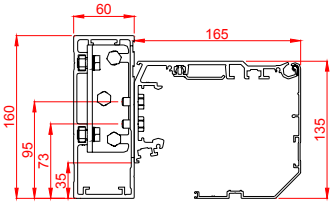
1.- Wall / UPN



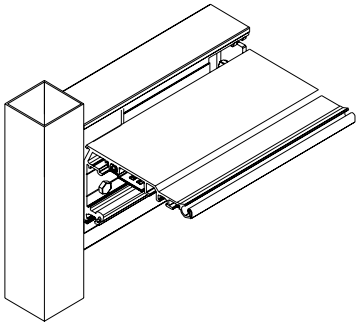


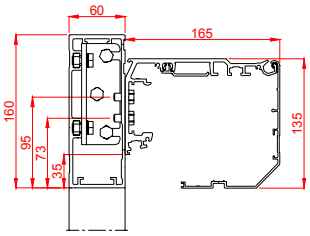
2.- Erreka - Self supporting Beam 1 **ADSF 1000 Operator**





2.- Erreka – Self supporting Beam 2 **ADSF 1000 Operator**

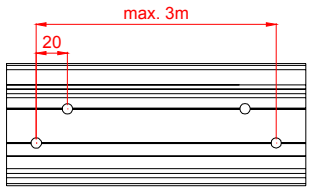




Steps:

1.- The base of the Case profile it has to be at 35mm from the base of the Self supporting beam.

2.- Drill holes in the Case profile.



3.- With the Case profile in the correct position, drill holes in the Self supporting beam.

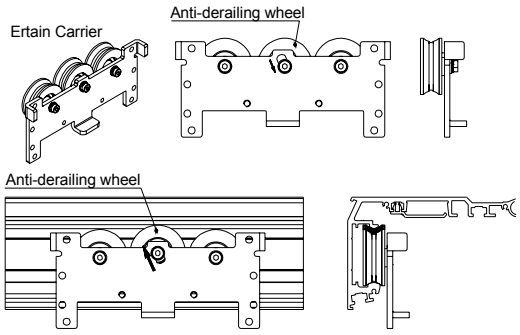
4.- Fix the case profiles to the Self supporting beam.

5.- Verify that the Case profile is in the correct position.

4.3 Positon the carriers on the roller track

ADSF 1000 Operator

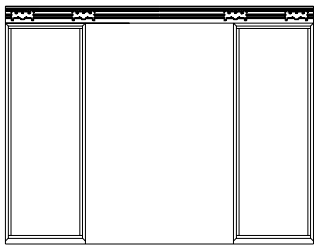
- With the nº 4 Allen key loosen the wheel of the middle (anti-derailing wheel) and move to the downster position.
- Hang the carrier assembly on the track.
- Fit the anti-derailing wheel in the upper position.



4.4 Fitting the fixed leaves

ADSF 1000 Operator

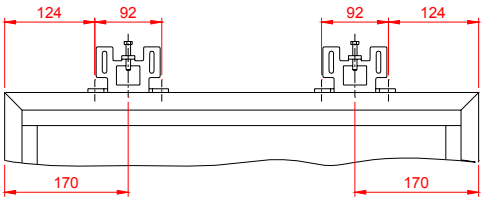
- Mount the leaves following the instructions provided in the profile installation manual.

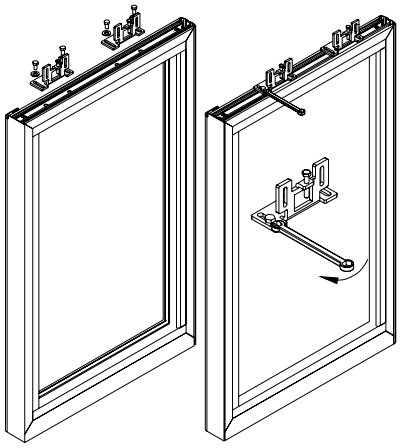


4.5 Fix the hanger bar to the leaves

ADSF 1000 Operator

- Mount the hanger bars on the sliding leaves as indicated in the diagram. The hanger bar centre should be approx 170mm from the sliding leaf side.
- Attach the M8x25 screws with wrench nº 13, 2 per hanger.
- For other profiles drill the holes at each and following the measurements below:

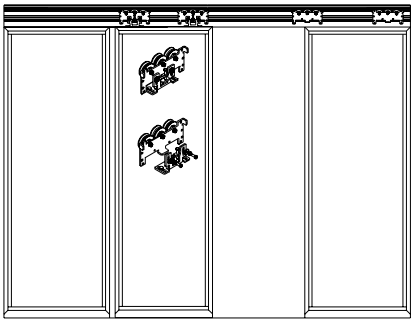




4.6 Hang the leaves on the carrier assemblies

ADSF 1000 Operator

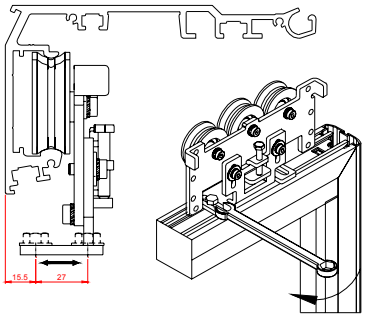
- Fasten the hangar bars to the carrier assemblies using M6x16 Allen screws with toothed and flat washers.



4.7 Depth adjustment of the sliding leaves

ADSF 1000 Operator

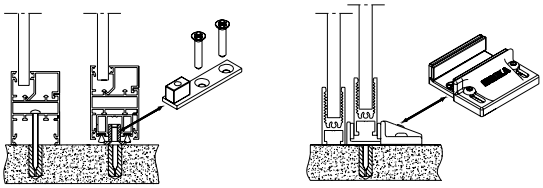
- Use wrench nº13 to position the sliding leaf parallel to the case profile. Then measure the distances between the leaf and the Self supporting beam.

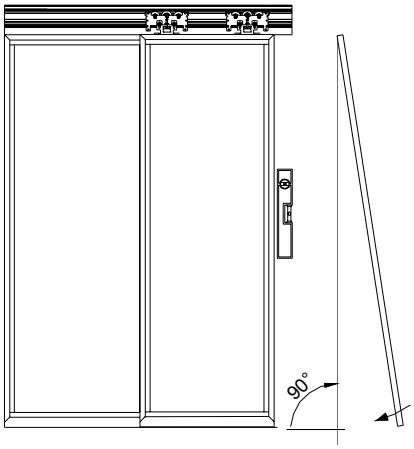


4.8 Fitting the guide

ADSF 1000 Operator

- Move the sliding leaf until it is at a 90º angle. Use a spirit level for this.
- Then position the guide on the floor at the end of the fixed leaf, with the block in the sliding leaf guide, make a mark on the floor when the leaf is level.
- Then fix the guide to the floor and slide the leaf along the guide.

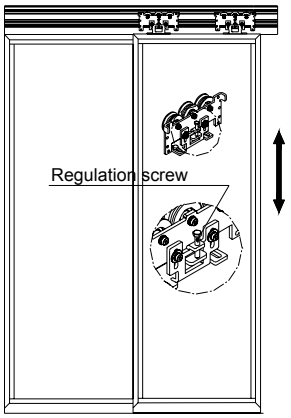




4.9 Setting the height of the sliding leaves

ADSF 1000 Operator

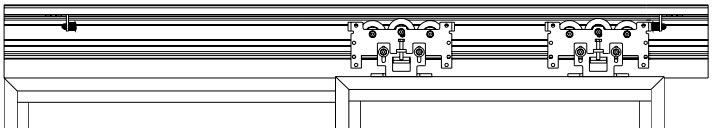
- Adjust the leaf height with the centre bolt. This adjustment is import in order to obtain a perfect fit between the two sliding leaves when they come together.

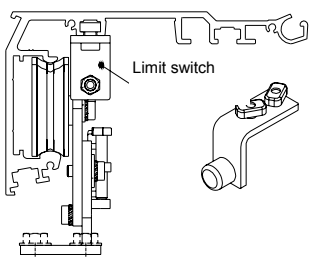


4.10 Fitting the limit switches

ADSF 1000 Operator

- Place a limit switch at the point where the sliding leaves meet. To do this insert the long nuts in the slide and fasten the limit switch unit using M6x10 Allen screws.
- The other limit switch will be mounted on one of the sides.

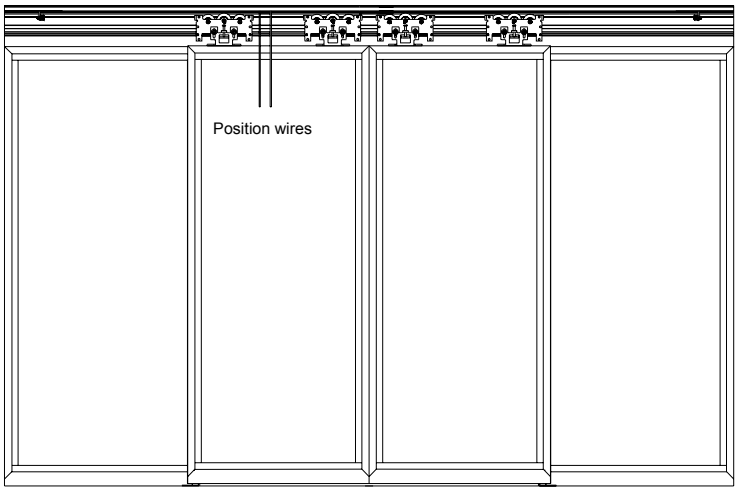




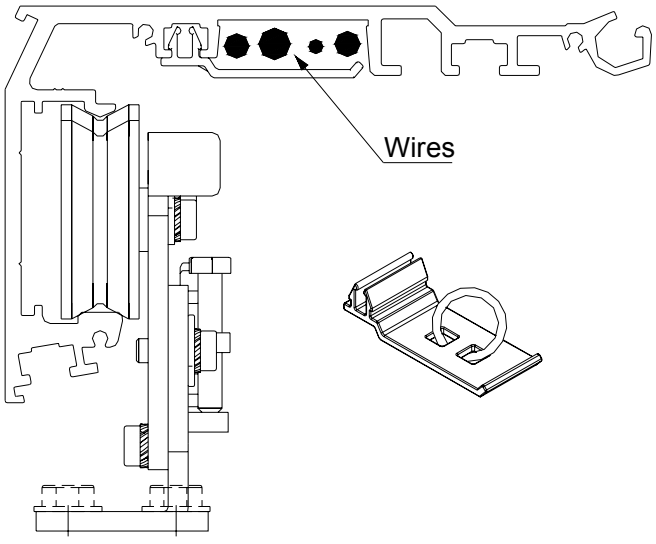
4.11 Wiring preparation

ADSF 1000 Operator

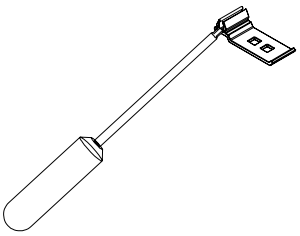
- It is VERY IMPORTANT to wire the peripherals (photocell, radars, selector,) before fitting the door operator. If not, it is difficult to fit the cable conduit. You must pass the wires to where the control board will be to enable their connection to the control board later on. To fix cables use the supplied cable conduit which is position as in the diagram below.



ADSF 1000 Operator



For taking away used the screwdriver!!!



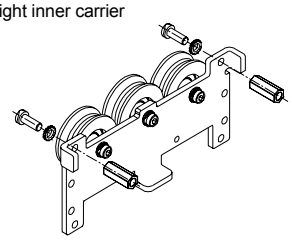
4.12 Mount the arms to the slides

ADSF 1000 Operator

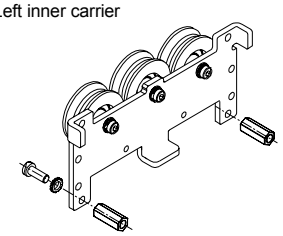
2 sliding leaves

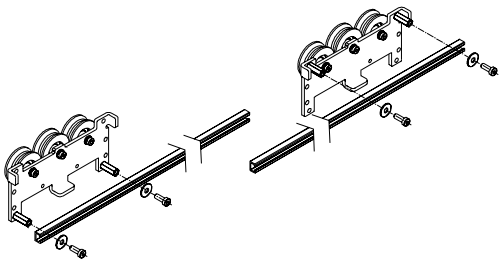
- Secure the dividers with a nº10 wrench inserting the M6x20 bolts from the rear with teethed washers.
- The arms Hill be positioned as follows; the right arm in the upper position (right inner carrier assembly) and the left arm in the lower position (left inner carrier assembly).

Right inner carrier

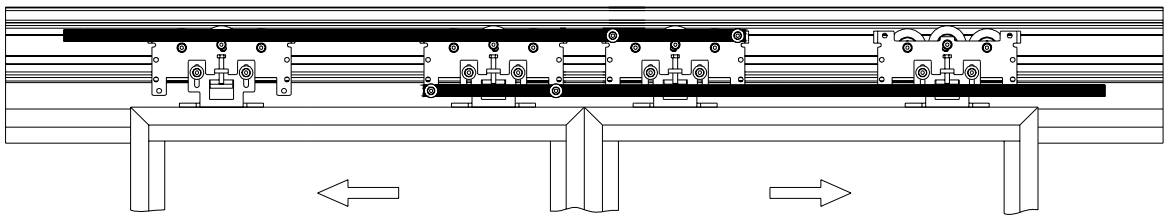


Left inner carrier





ADSF 1000 Operator

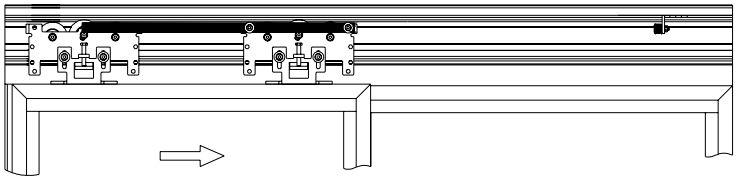


1 sliding leaf

- Opening to the right

Fix the arm onto the upper right slide.

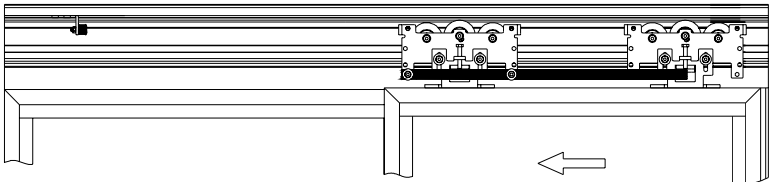
ADSF 1000 Operator



- Opening to the left

Fix the arm onto the upper left slide.

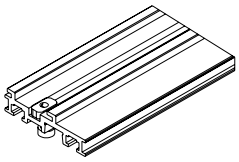
ADSF 1000 Operator



4.13 Securing the brackets to the belt

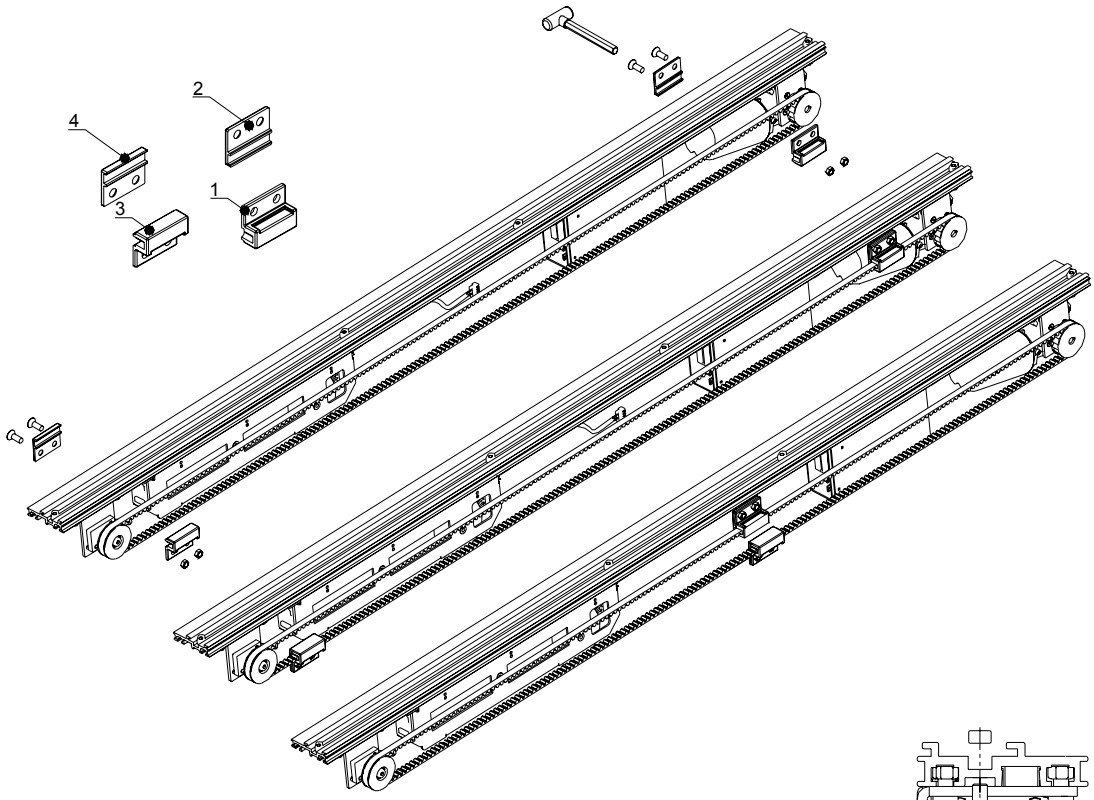
ADSF 1000 Operator

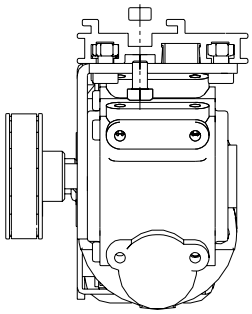
- Insert the brackets (1) y (3) in the belt the same number of teeth away as each of the pulleys.
- Fit the covers (2) and (4) to the brackets and fix them with 2 countersunk screws and M6 nuts.
- Move the brackets toward the drive centre by pulling the belt.



ATENTION: In the case of one sliding leaf fit just one bracket.

ADSF 1000 Operator





4.14 Position and secure the drive profile

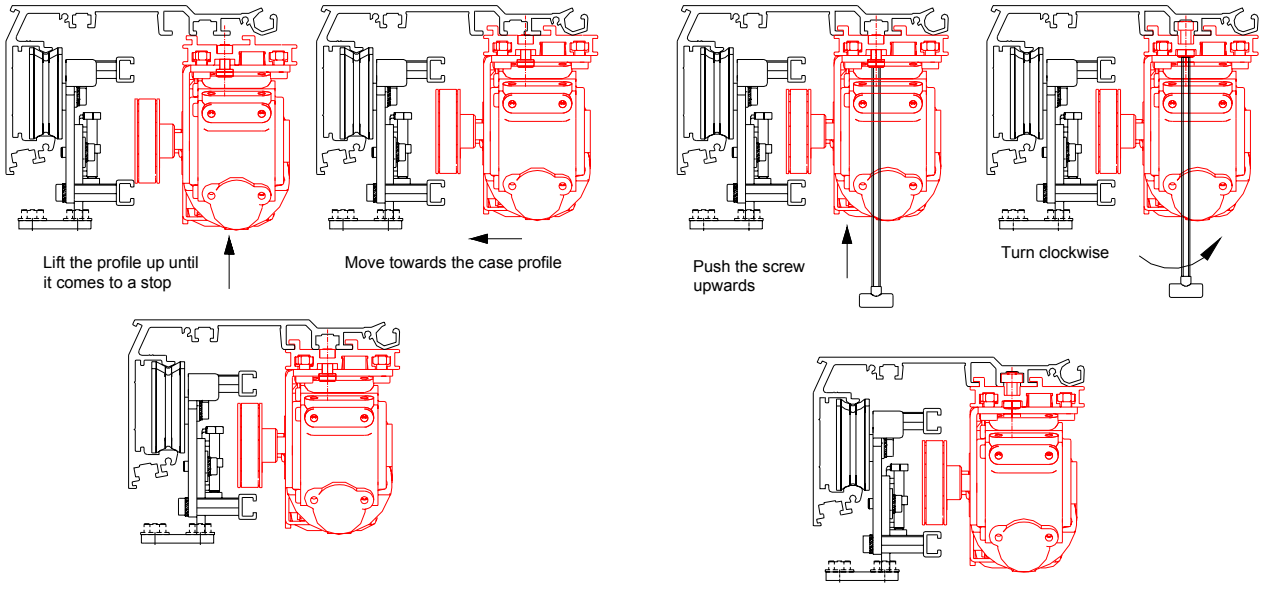
ADSF 1000 Operator

-Loosen the 4 M6x16 bolts until they are at a level with the long nut, and leave them on the track as indicated in the diagram.

- Open the doors before fitting the motor unit, so that the arms do not obstruct the mechanism.
- Take the motor unit and move it upwards until it reaches its limit against the case section.
- Move the motor unit inwards, so that the tabs fit into place. The unit can then be released.
- Place the motor unit laterally, according to the type of installation.

Insert the M6x16 Allen bolt until it reaches the case section, and turn the bolt until the motor unit is firmly fixed to the case section.

•Fitting the drive to the case section: ADSF 1000 Operator

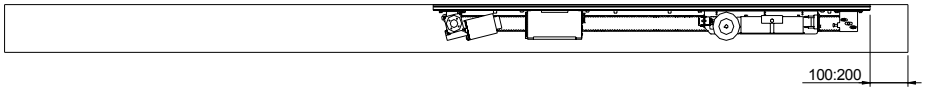


Position drive unit in the case profile **ADSF 1000 Operator**

- 2 sliding leaves: **IN THE CENTRE**

- 1 right opening sliding leaf: **ON THE LEFT**

- 1 left opening sliding leaf: **ON THE RIGHT**

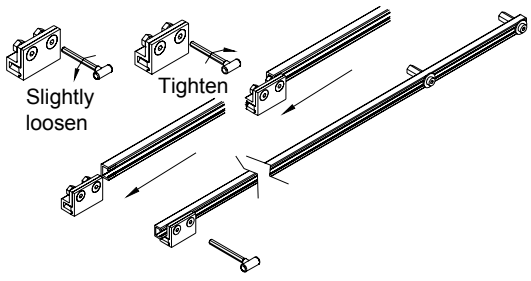


4.15 Fasten the brackets to the arms ADSF 1000 Operator

-Slightly loosen the M6x12 countersunk bolts holding the brackets in place, and move one of the sliding leaves. Insert the M6 nuts to fasten the bracket inside the arm rail, then tighten the M6 countersunk bolts using the nº 4 Allen wrench.

-Move the 2 sliding leaves until they make contact, then fasten the other bracket to the other arm.

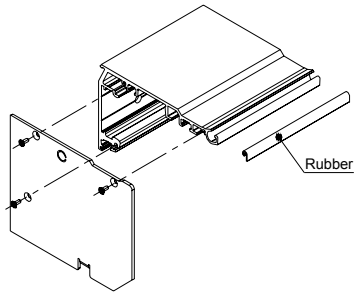
-Perform the same operation and manually check that the leaves can move to the limit switch



4.16 Fitting the rubber and the side covers

ADSF 1000 Operator

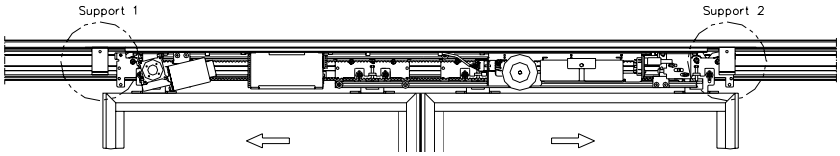
- Fit the rubber (the entire length) in the case profile.
- Mount the side covers attaching them to the case profile with ϕ 4,2x13 countersunk sheet metal screws.

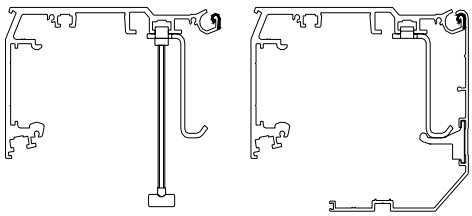


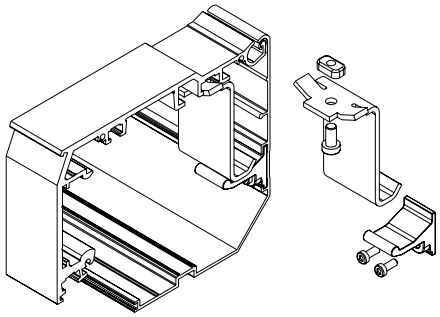
4.17 Fitting the cover supports

ADSF 1000 Operator

- Place the long screws in the direction of the case profile track, move the screw until it stop against the case profile. When it can not go any further, turn the ϕ 4 T-handle Allen wrench clockwise.
- Place the two cover supports in the positions indicated;





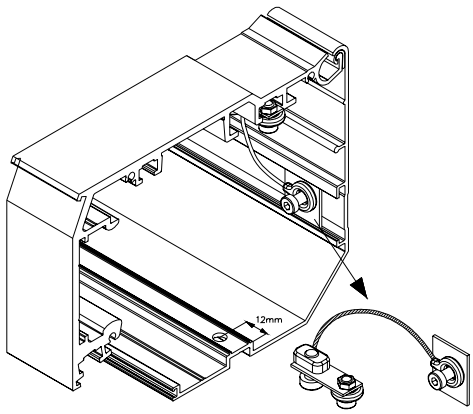


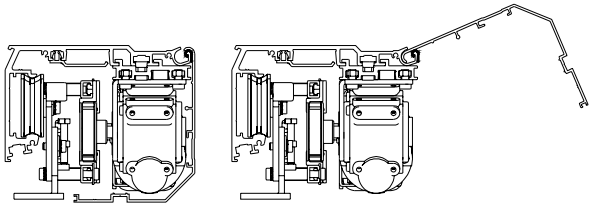
4.18 Fitting the cover Profile

ADSF 1000 Operator

- Drill two 6.5mm diameter holes in the two ends of the cover section.
- The distance from the centre of the hole to the end should be 12mm.
- Fixed the “Paracaida” o the Case profile and Cover profile. Fixed it in the two ends of the cover section.
- When the section is positioned, allow it to slide down by its own weight until the cover pivots. Lastly, fix the cover section to the side covers using two M6x15 bolts (one at each end).

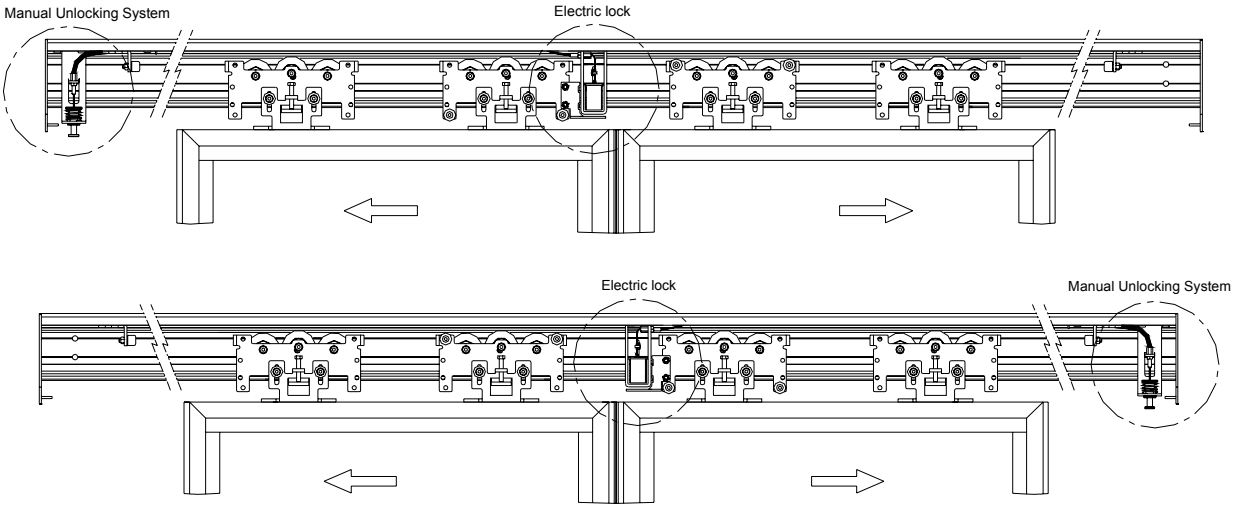
Important; the cover does not need to be completely detached from the unit for maintenance: it can be partially detached and left hanging.



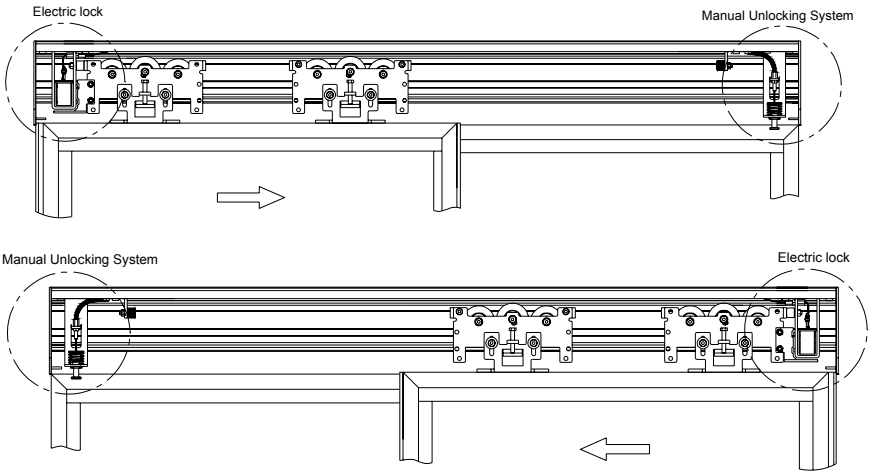


4.19 Fitting the Electric-lock

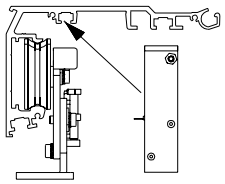
2 Sliding leaves ADSF 1000 Operator

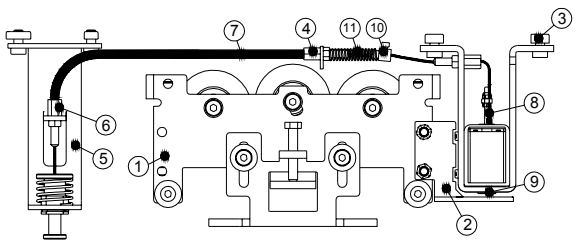
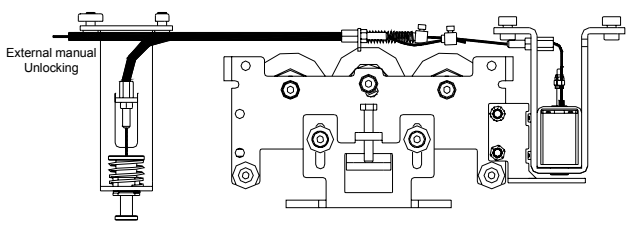


1 Sliding leaf ADSF 1000 Operator



- Fix the carrier blocking (2) to the Carrier (3) with two bolts.
- With the door open, insert 2 specials nuts in the middle of the Case profile (3). (See the picture)
- Fix the “Electric-Lock” (9) with two bolts. Move the wings to the closed position by hand. Adjust the position of the Electric-lock.
- Place the support (4) of the unlocking cable at some 60mm to the left (or right) of the Electric – Lock.
- Place the handle (5) in the left (or right) corner of the Case profile.
- Put the Cover cable (7) from the support (4) to the handle (6).
- Fed the Cable (8) through the hole of the part linked to the rear axle of the electromagnet. Bear in mind that the brass flange (10) and the spring (11) must be passed first before passing them through the support of the cover.
- With the handle in the down position, the Electric-lock in the upper position an d the cable tensioning, fix the cable to the handle by tightening the pin of the handle. Cut the cable at the height of the handle.
- Connect the cables to the Electronic operation panel.

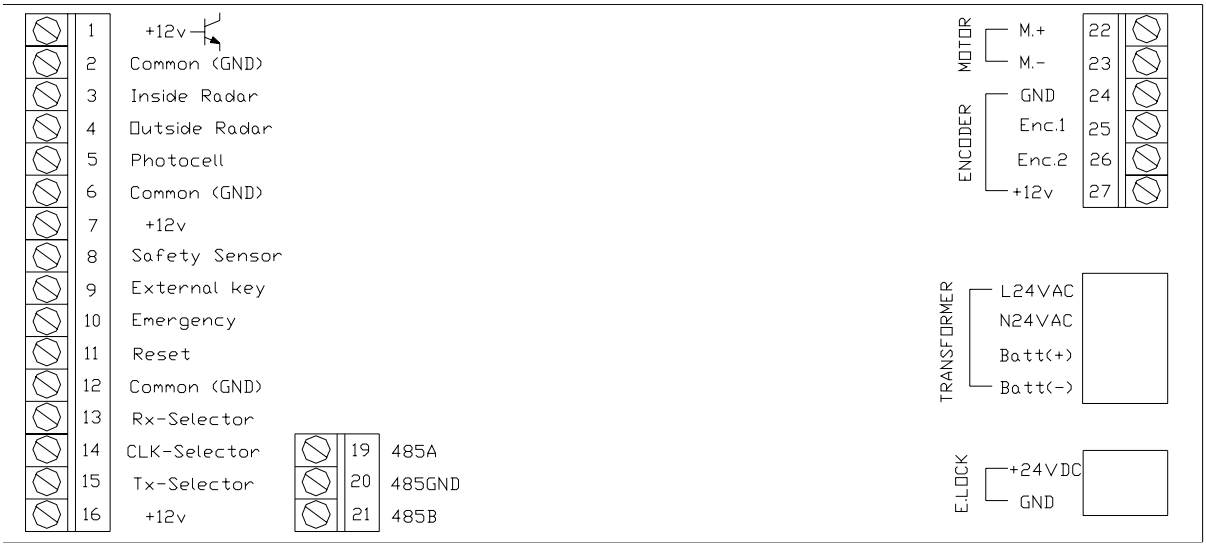


Inside Manual Unlocking system	Inside and outside Manual Unlocking system
	

5. ELECTRONIC OPERATION PANEL

5.1 Connection terminals

ADSF 1000 Operator

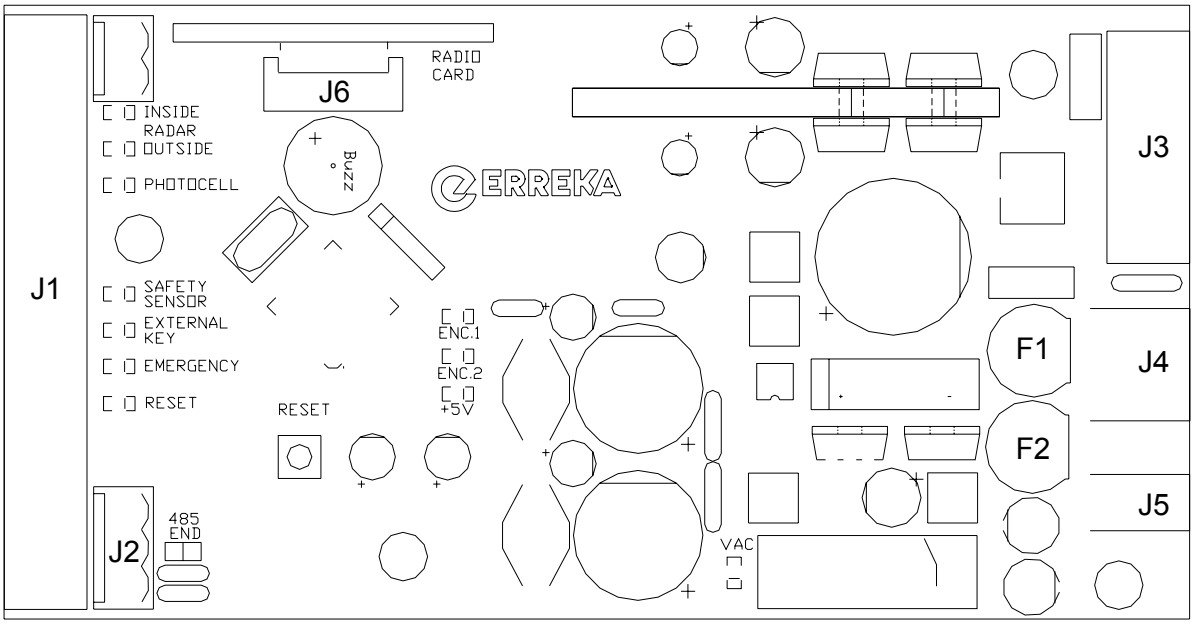


Normally closed inputs: Photocells terminals 2 and 5; Safety sensor; terminals 6 and 8; external key; terminals 9 and 12.

Terminal 1 of the supply input is transistorised. Supply is interrupted in “Door Closed” mode or with the external key signal, terminal 9, open.

5.2 Diagram of control panel

ADSF 1000 Operator



ADSF 1000 Operator

LED DIODES	ON	OF
VAC	220V mains voltage	No mains voltage
ENC1	Encoder track 1 signal	
ENC2	Encoder track 2 signal	
+5V	Voltage to Microprocessor	No voltage to microprocessor
INSIDE RADAR	Internal radar input closed	Internal radar input open
OUTSIDE RADAR	External radar input closed	External radar input open
PHOTOCELL(NC)	Photocell input closed	Photocell input open
SAFETY SENSOR(NC)	Safety sensor closed	Safety sensor open
EXTERNAL KEY(NC)	External key input closed	External key input open
EMERGENCY	Emergency input closed	External key input open
RESET	Performing reset operation	

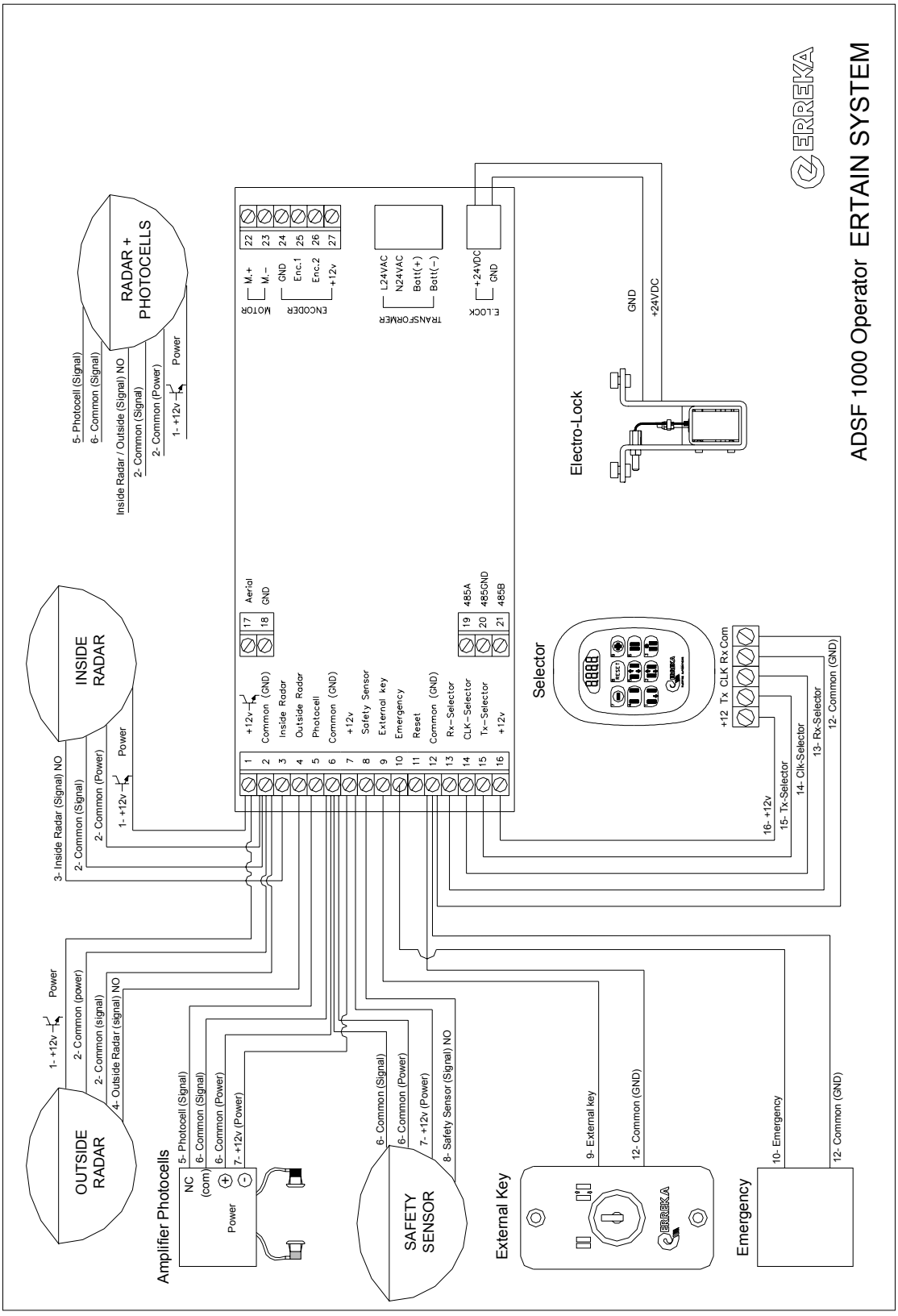
ADSF 1000 Operator

CONNECTORS	MEANING
J1	Peripheral input terminal strip
J2	Connector for input of communication unit (485)
J3	Connector of geared motor+encoder
J4	Connector for input of supply (net + batteries)
J5	Connector for electro-lock input
J6	Plug-in connector for receiver of remote control

ADSF 1000 Operator

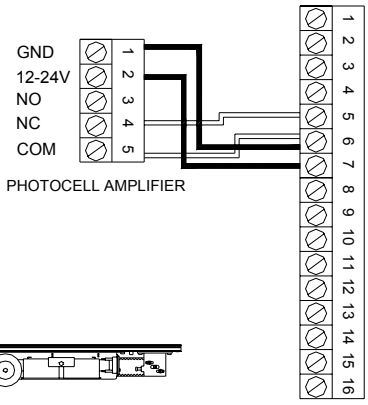
FUSES	FUNCTION
F1	Fuse 5x20 8 A (motor protection)
F2	Fuse 5x20 5 A (battery protection)
F3 (Fuse power supply input)	For 220V fuse 5x20 2A
	For 110V fuse 5x20 4A

5.3 Standar connection



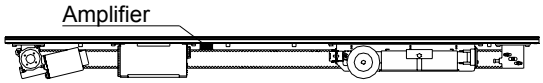
Photocells ADSF 1000 Operator

Place the amplifier on the motor unit or case section, and fix it in place with the adhesive tape on the case section.



- Install the photocell transmitter/receiver in its corresponding position according to the type of door frame. If 1 photocell is installed, place it at 500 mm from the floor. If 2 photocells are installed, place one of them at 1000 mm from the floor and the other at 200 mm.

- Thread the transmitter and receiver cables through the cable conduit to the photocell amplifier, and make the connections as shown in diagram 1.



- Connect the amplifier to the panel with the 4-wire cable as shown in Diagram 2.

Connection to the mains ADSF 1000 Operator

- Thread the cable through the cable conduit, then clip it to the case section and run it to the power supply unit. To do this, strip the cables and fix the connector to one end. Finally, insert the connector into its base, located in the power supply unit.

Radars ADSF 1000 Operator

- Connect the internal radar directly to the panel. Run the external radar cable to the left side of the motor unit through the standard U-section. Make a hole through the case profile and thread the cables through the cable conduit to the panel.
- For the wiring connections, see Diagram 3.

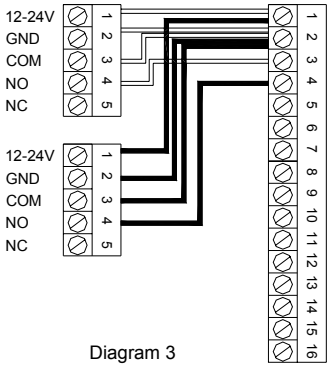
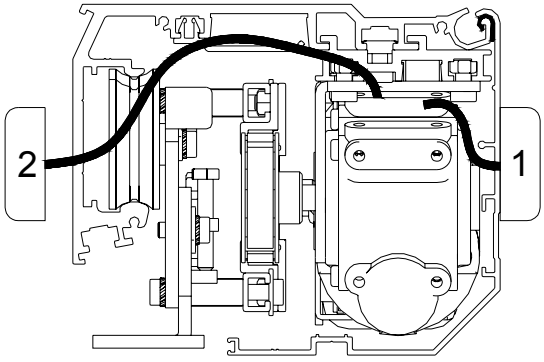
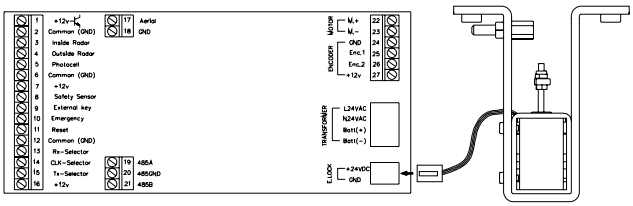


Diagram 3



1.- Internal radar
2.- External radar

Electrical locking device ADSF 1000 Operator



Digital Selector ADSF 1000 Operator

- The selector is the user-control panel communication device for controlling and performing the following functions:

1.-Selecting the different door operating modes.
2.-Setting the operating parameters.
3.-Switching the options on and off.
4.-Diagnosing failures and error modes.

- While the door is functioning, the working mode it is functioning in will appear on the display.

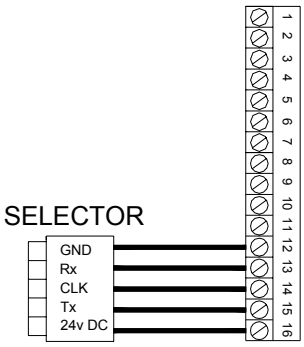
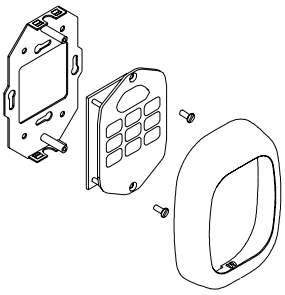


Diagram 4



5.4 Auxiliary connections ADSF 1000 Operator

External key ADSF 1000 Operator

- The external key is a safety switch operated from outside. The input is NC. It has two positions:
A: disabled (contact closed)
C: enabled (contact open)

- When the lock is in position C, the door is in "locked" position and the blocking function is activated (if incorporated).

- In position A, the door returns to the last function it was in before the lock was enabled. However, if it was in "Door closed" position, it will always open once, to enable the person activating the lock to enter.

Pedestrians may exit through the door if the key is activated by pressing “S-SA” on the selector, or button “1”. When either of these buttons these are pressed, the door will remain in “S-SA” mode for one minute. It will then return to key or door closed mode.

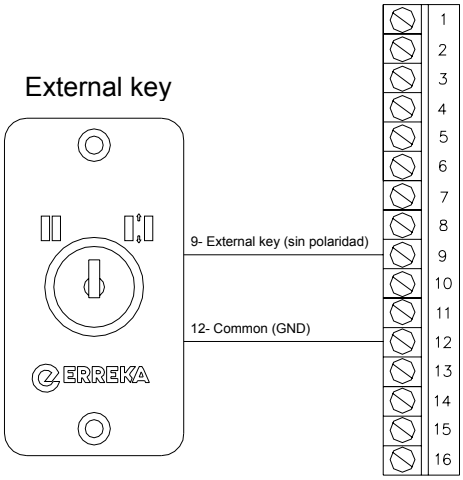
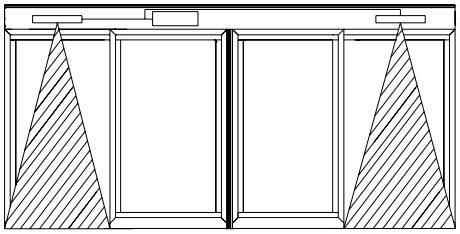


Diagram 5

Lateral safety sensor ADSF 1000 Operator

- This prevents pedestrians from being trapped by the leaves during the opening manoeuvre. The opening process is stopped if any obstacle is detected in the leaf opening path. The cover section is centred above the fixed leaf.

Important: If any obstruction is detected in the sensor detection area, the door will not open.



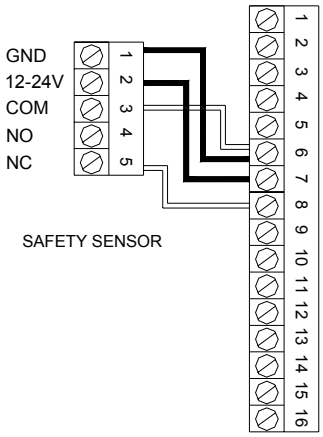


Diagram 6

Reset button ADSF 1000 Operator

- This is used if the Selector is not installed. Its purpose is to activate the reset manoeuvre, in order for the motor unit to start up. If the Selector has not been installed, the door can only perform the Two-way Automatic manoeuvre directly; it cannot perform any other manoeuvres such as Doors Open, Doors Closed, Exit Only, etc. In such cases it is recommendable to fit a reset button, on one of the side covers for example, for cases in which the door parameters need to be reset.

Remote control ADSF 1000 Operator

- This accessory consists of a 433MHz four-channel transmitter and a plug-in receiver connected directly to the panel.
- The remote control has two operating modes:

1.- Reduced selector, enabling the three operating modes: “Door open”, “Door closed” and “Automatic”. These three modes are shown above each of the buttons.

2.- Press to open door: when the button on the remote control is pressed the door will open.

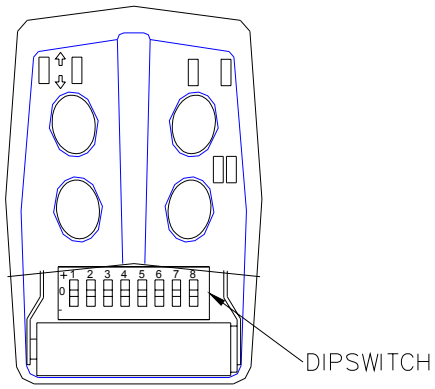
Programming the transmitter

The process for programming the transmitter and receiver is as follows:

1.- Select a code from any of those available by turning the 8 transmitter dipswitches to the desired position (see figure).

2.- Press and hold down one of the transmitter buttons.

3.- Then press the receiver button, with the receiver already inserted in the panel. Hold it down until the receiver LED flashes three times. The transmitter code will then have been recorded and the receiver and transmitter buttons can be released.



Emergency / Fire prevention function ADSF 1000 Operator

Terminals 10 and 6 are used for the emergency input.
This input is a safety system and therefore has preference over all the other inputs. It is normally connected to the fire alarm in the building.
There are 2 emergency functioning options: the door either opens or closes. There is also a 2 input signal type option.

Operating mode ADSF 1000 Operator

1.-This is entered from the function "--++"(FunC) "3" (AI-0)

(AI-0): When the signal is received, the door goes into total opening position and remains in this position while the emergency signal remains activated.
(AI-1): The door only obeys the photocell, not the radars, and goes into closed position. When the door is closed it stays in this position while the emergency signal remains activated.

Type of Signal ADSF 1000 Operator

There are two types of emergency signal: continuous and single.

2.- From functions "--++" (FunC) "6" (LA-0)

(LA-0): Continuous signal. While this signal remains activated, the door will work in emergency mode. When the signal disappears it will return to its previous working mode.
(LA-1): Single signal. When one single signal occurs, the door will go into emergency mode and remain in this mode. For the door to return to normal functioning it needs to be reset from the panel.

When the emergency signal occurs, (Err6) will appear on the display.

Power outage emergency ADSF 1000 Operator

If there is an electricity cut and the emergency signal occurs, the battery-powered panic mode has priority for emergency functioning. The reaction to an emergency signal will therefore be the same whether power is reaching the unit or not.

If there is a power outage before the emergency signal occurs, if the door is open on "Err-5" it will remain in this position (in the case of "Err6") but with the emergency warning on the display.

6. START (Set Up) ADSF 1000 Operator

Once the automatism and the selector have been installed, the door is to be connected to the mains as follows:

1.- Connect all peripheral elements (sensors, photo beams, selector, etc.) to the panel.

2.- Open the cover and plug the mains connector into the supply source unit. Press the bipolar switch activating the power supply and the batteries. The reset or start operation will begin automatically. Close the cover while the door carries out the operation.

The reset operation will be performed when the door is started up for the first time.
Its purpose is to measure the length of travel of the of the door leaves, set the initial values for all the parameters and start up the counters. The operation consists of one opening cycle until the end of travel limit stop is reached, followed by a closing cycle until the two leaves make contact. During this cycle the panel takes the above measurements and is then ready to begin its normal functioning.

3.- When the reset operation ends, the door will go to “door closed” status. From this position the door can be commanded from the selector.
If the selector has not been installed, it will go directly to “two-way automatic” status. To regulate it, send the door to “door open” mode, which is the normal working mode. By default, the panel will select a determined displacement curve depending on the conditions calculated on reset, and in principle it will therefore not be necessary to change the parameters. However there is the option of varying the initial parameters and using any others you consider the most suitable for each installation. To do this, see point 6, “Parameter adjustment using the selector”.

4.- When the functioning has been regulated as the customer wishes, the working mode of the door can then be chosen on the selector.

6.1 Operation modes ADSF 1000 Operator

These are different operation or status types the door can work in. Six different operation modes are possible with this automatic system;

1.- Door Open **(OPEn)**

The door opens and remains in its maximum opening position.

2.- Door Closed **(CLSE)**

The door closes and remains in closed position until the mode is changed. If the electric lock is installed, the door closes and is blocked so that no-one can enter.

3.- Two-way automatic **(A U – b)**

This is the most common working mode. It allows the door to travel in both directions and all the detection devices are enabled. The door remains closed until any of the devices are activated. When this occurs, the door opens and after remaining open for a short wait time (adjustable), it closes again until a new detection occurs.

4.- Partial automatic **(A U – P)**

The functioning in this case is the same as for two-way automatic mode, with the difference that the leaves do not go to maximum open position but instead open partially. This opening is user-adjustable (see point 6).

5.- Partial door open **(O P E n)**

There is no separate button for this mode. It uses the same button as door open, and it functions in the same way, the difference being that the door stops at partially open position.
This mode only functions when the door has previously been in “partial automatic” mode. If you wish to return to “door open (total)”, press “two-way automatic” first.

6.- Exit only **(EXI t)**

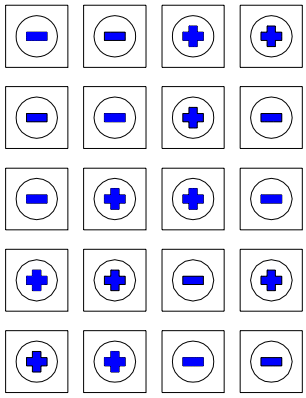
The door only functions in exit direction. In exit direction it works in “two-way automatic” mode, and in entry direction in “door closed” mode.

7. PARAMETER SETTING WITH THE SELECTOR

To adjust the parameters you must start from “Door open” working mode. Adjustments cannot be made any other mode.

There are 4 adjustable parameters:

ADSF 1000 Operator



FUNCTIONS (FunC) — ADJUSTMENTS NORMAL

MAIN PARAMETERS (PArA)

SPECIAL FUNCTIONS (ESPE)

OPENING PARAMETERS (PAAP) — ADJUSTMENTS SPECIAL ADJUSTMENTS (For installers)

CLOSING PARAMETERS (PACL)

Parameter List **ADSF 1000 Operator**

To enter programme follow the sequences of 4 continuous flashes indicated by pressing the “+” and “-“ buttons on the selector.

- - + + FUNCTIONS (FUnC)

Transmitter Configuration	"1" (rF-0)	Selector; the remote control Works as selector (Three channel)
	"1" (rF-1)	The remote control generates an opening signal.
Delayed Closing	"2" (rC-0)	Deactivates the delay timer when “Door Closed” mode is activated.
	"2" (rC-1)	Activates the delay timer when “Door Closed” is activated. Until the established time has passed the door functions in “Exit Only mode”. Once this time has passed the door automatically goes to “Door Closed” mode.
Emergency Behaviour	"3" (EF-0)	Door open. When the signal is activated, the door moves to open door position and remains there.
	"3" (EF-1)	Door closed. When the signal is activated, the door moves to closed door position and remains there.
Battery Function	"4" (bA-0)	Anti-panic; in the case of mains power loss, the door opens and stays open. If the door is in Door closed mode it will stay closed.
	"4" (bA-1)	Autonomous mode; in the case of mains power loss the door continues working normally until the batteries are used up.
Emergency Signal	"6" (ES-0)	Cnotinuous emergency signal. To keep the emergency mode operating the signal needs to stay on. When it finishes the door returns to normal function.
	"6" (ES-1)	Single emergency signal. One signal is activated, the door moves to closed door position and remains there.

- - + - MAIN PARAMETERS (PArA) ADSF 1000 Operator

Smooth stop when closing	“1” (bc-0)	Standard value; (bc-5). Setting; from 01 (max force.) to 09 (min. force)
Partial opening percentage	"2" (P-50)	Standard value; (P-50). 50% Setting; from 30 to 70 %.
Smooth stop when opening	"3" (ba-5)	Standard valuer; (ba-5) Setting; from 01 (max force) to 09 (min force)
Opening Speed	"4" (A-55)	Standard value; (A- 55). 0,55 m/seg Setting; from 0,50 to 0,90 m/seg
Opening waiting time	"5" (E-03)	Standard value (E-03),; 3 segundos. Setting; from 0 to 20 segundos
Closing Speed	"6" (C-30)	Standard value; (A- 30). 0,3m/seg. Settting: from 0,20 to 0,50 m/seg.

- + + - SPECIAL FUNCTIONS (ESPE) ADSF 1000 Operator

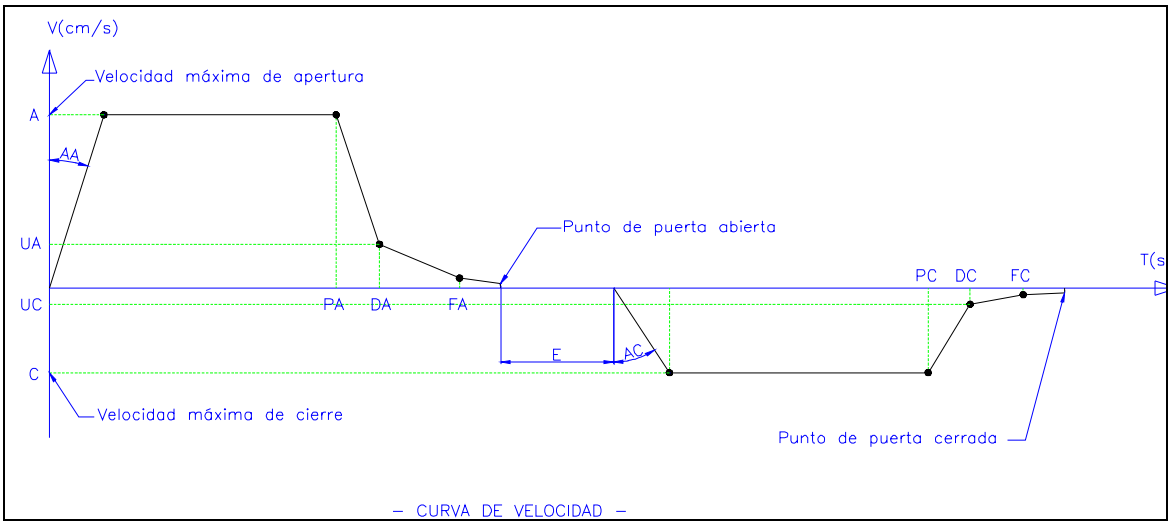
Sensitivity	"1" (SP-0)	Sensitivity is deactivated by pulses.
	"1" (SP-1)	Sensitivity is activated by pulses.
Obstacle Detection	"2" (CA-0)	Standard; when an obstacle is detected when the door is closing it opens and closes slowly. When it detects an obstacle when closing 3 times in a row the door stays open. To re-establish normal functioning perform a reset. When an obstacle is detected when the door is opening 3 times in a row, the door stops and a “beep” sounds. To re-establish normal functioning perform a reset.
	"2" (CA-1)	Special; When an obstacle is detected when closing the door opens slowly and closes at normal speed. When an obstacle is detected when the door is opening the door resets automatically.
Reset configuration	"3" (CR-0)	When the electric control board has power supply the door reset automatically.
	"3" (CR-1)	When the electric control board has power supply the door resets if the external key is activated. Until the key is activated the door will not start the reset operation.
Automatic / Semiautomatic	“4” (AU-0)	Automatic
	“4” (AU-1)	Semi - Automatic
Battery charge level fuction	“5” (nb-0)	Desactivated.
	“5” (nb-1)	Activated.
Door Address	"6" (d-00)	For Erreka Control System.

+ + - + OPENING PARAMETERS (PAAP) ADSF 1000 Operator

Final opening velocity	"1" (FA.02))	Standard value; (FA.02). Setting; from 01 min. to 15 max.
Minimum deceleration velocity when opening	"2" (UA.04)	Standard value; (UA.04). Setting; from 01 min. to 10 max.
Sensitivity when opening	“3” (SA.09)	Standard value; (SA.09). Setting; from 01 very sensitive to 09 less sensitive.
Opening Acceleration ramp.	"4" (AA.8)	Standard value; (AA.8). Setting:from 08 max. to 20 min.
Opening deceleration point	"5" (PA.65)	Standard value (PA.65). Setting; from 40 to 85.
Opening deceleration ramp.	"6" (DA.85)	Standard value; (DA.85). Setting; from 70 to 95.

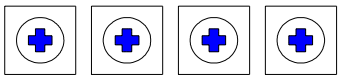
+ + - - CLOSING PARAMETERS (PACL) ADSF 1000 Operator

Final closing velocity	"1" (FC.02))	Standard value; (FC.02). Setting; from 01 min. to 15 max
Minimum closing deceleration velocity	"2" (UC.03)	Standard value; (UC.03). Setting; from 01 min. to 10 max
Sensitivity when closing	“3” (SC.09)	Satandard value; (SC.09). Setting; from 01 very sensitive to 09 less sensitive.
Closing aceleration ramp	"4" (AC.10)	Standard value; (AA.10). Setting: from 08 max. to 20 min.
Closing decelaeration point	"5" (PC.65)	Standard value (PC.65). Setting; from 40 to 85.
Closing deceleration ramp	"6" (DC.85)	Standard value; (DC.85). Setting: from 70 to 95.



Diagram/graph SPEED CURVE

Keyboard lock **ADSF 1000 Operator**

 → cod 1 + Timer (10 seg) → LOCKED WITH CODE BY DEFAULT

↓

Cod 2 (on display when a new code is keyed e.g. “3458”)

↓

COdE (the new code must be repeated for it to be saved)

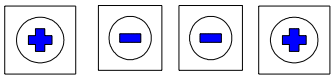
If + is pressed 4 times after 10 seconds it will be locked and the corresponding working mode will appear on the display with dots beneath each digit (P.-.A.b.) The code must be any number between “1111” and “9998”.

Release **ADSF 1000 Operator**

Key in the code previously set from any working mode. Whwn it is keyed in the dots will disappear from the display and the selector will be activated.

Return to initial parameters **ADSF 1000 Operator**

After making the adjustments to the displacement curves, in some cases you may reach a point where you consider the curve calculated by the micro on the first reset to be better. In this case you have the option of returning to the original curves.

 + CODE (The release number)

The automatism will then begin a reset operation and return to the initial curves.

8. FAULT FINDING GUIDE ADSF 1000 Operator

SYMTOM	DETECTION	SOLUTION **ADSF 1000 Operator**
- Reset is slower than normal -Alter reset if we press "Automatic" the door opens and "Err5" appears on the display.	- Diodo LED; VAC off - Display; Err5.	Lack of mains power; - Check the power supply fuse (5x20 2A) . - Check the motor protection fuse (5x20 8A) . - Check that the wires are properly conected in the power supply and the panel.
- On doing a reset the door stays open, Hill not shut and the reset alarm continues sounding.	- Diodo LED; Photocell (NC)	- Check that the photocell is working properly.
- Alter reset the door stays closed even when you try to change it from the selector.	- Diodo LED; External key (NC) off.	- Check that the key is in closed position. - If the door does not have an exterior key check that the panel exterior key terminals are bridged.
- When the door is in automatic and detects the radar to reverse the movement, the door opens at full speed without braking and bangs the end stop hard.	Check the motor power supply cables. Position: RED (motor power supply) BLACK(motor power supply)) BLACK(encod. power supply)) GREEN(encoder signal 1) YELLOW(encoder signal 2) RED (Encoder power supply)	- Connect the cables (both the power supply and the encoder cables) as indicated above.
- The motor does not move or g oto door open without mains power.	It may be in "CLSE". - The batteries may not be charged or may be badly connected.	- It may be fine as the doors shouldn´t open when in doors closed mode. - Check the battery power supply connection. Measure the battery output with a multimeter. - Change if the batteries have run out.
- "Err6" appears on the display.	- LED diode; Emergency on.	- Reset the door.
- The door is in automatic but does not open in response to the radar pulse. Or open slowly.	- Diode Safety sensor (NC); if it is off the door will not open.	- Check the panel connections.
- The door moves manually with difficulty.	- Friction.	Detect and remove the source of friction by; - Separating the door rubbing against the wall or fixed objects. - Raising the door or friction source with a guide shim. - Clean the Soller channel (shavings or bits)
- Banging sounds when the door opens, or shuts	- Moving parts of the door making contact with fixed parts.	To detect this contact: - The carriage may be touching the screws fixing the casing. Tighten the screws with smaller heads. - The holding armo f the door carriage to the belt may be touching the transformer casing or CPU. Straighten this arm so it does not bang.
- The door opens during reset but it does not shut. In Some cases it may start to close and then go back half way through shutting.	- The Photocell may be in bad repair or disconnected. - The motor power supply transistor may be broken.	- Check the photocell. - Replace the transistor or board.
- When opening or closing the door stops or goes back.	- Rubbing contact.	- See Mechanical problems.
- Indication of a run down or broken battery. The door goes to open position.	- Display; BAtt.	- If this Batt flashes for more than one day the batteries must be changed regardless whether they are Esther briken or run down below their cut off point.

9. ANNEXES

9.1 Mantenance — ADSF 1000 Operator

The automatic door installations need regular maintenance. The frequency of this maintenance will depend on weather conditions and the amount of traffic.

1.-Remove any dust and dirt from the mechanism. Dirt in the running track should be removed with methylated spirit.

2.-No parts need oiling. The notched belt must be kept clean and dry.

3.-Check that all the nuts and bolts are correctly tightened.

4.-If necessary, adjust the speeds of the sliding leaves and the time the door remains open, and make sure the position of the moving leaves is in accordance with the regulations and requirements in force.

9.2 Guarantee — ADSF 1000 Operator

ADSF ERREKA Automatic Doors would remind you that once the installation is complete, they have no liability for any possible damages caused by an installation failing to comply with this Installation Manual.

NBS Specification

ADSF 1000 Ertain Model bi-parting sliding door system

The ERTAIN System operator can be adapted to the needs of each installation. It is prepared for heavy traffic, both in large (supermarkets, hotels, airports, hospitals...) and in small and medium buildings (offices, chemist's, restaurants, points of sale in general...). Its most important features are its silent movement when opening and closing, dynamic stability and its quick and easy installation.

All equipment is designed to meet the rigorous safety requirements of BS 7036:1996 and is installed by Automatic Door Suppliers Association (ADSA) accredited engineers

Standard details for ADSF 1000 bi-parting sliding door system

- Supplier — ADSF UK LTD
- Product reference — ADSF 1000 Ertain Model
- Door configuration — Bi-parting, no fixed panels
Bi-parting, two fixed panels
- Drive operation — Standard
- Door leaf width — 700mm - 1500mm
- Door height — 2000mm - 3000mm
- Finish — Anodised silver
Polyester powder coated standard BS colours
Polyester powder coated standard RAL colours
- Glazing — As standard
Double glazed - available on request
- Control — Digital Selector or Key switch
- Safety & security — Intelligent self learning movement and presence sensors across door threshold
Rear edge presence sensors for back of door safety
Monitored battery backup (provides up to 30 minutes operation in the event of a mains power failure)

ADSF 1000 Operator

TECHNICAL FEATURES	Operator 1450	Operator 1850
Free passage (2 sliding leaves)	1000-2300mm	1100-3000mm
Free passage (1 sliding leaf)	750-1150mm	1000-1550mm
Max leaf weight (2 leaves)	80 + 80 Kg.	80 + 80 Kg.
Max leaf weight (1 leaf)	120 Kg.	120 Kg.
Max opening speed	0.7 m/s	0.7 m/s
Min opening speed	0.4 m/s	0.4 m/s
Max closing speed	0.5 m/s	0.5 m/s
Min closing speed	0.2 m/s	0.2 m/s
Max closing force	150 N	150 N
Temperature	-20ºC/ +50ºC	-20ºC/ +50ºC
Open door timing	90 seg.	90 seg.
Power suplply (single phase)	220/110 V (single phase)	220/110 V (single phase)
Consumption	100 W	100 W
Battery	Lead (12+12 v)	Lead (12+12 v)

NBS Specification

ADSF 1000 Ertain Model single sliding door system

The ERTAIN System operator can be adapted to the needs of each installation. It is prepared for heavy traffic, both in large (supermarkets, hotels, airports, hospitals...) and in small and medium buildings (offices, chemist's, restaurants, points of sale in general...). Its most important features are its silent movement when opening and closing, dynamic stability and its quick and easy installation.

All equipment is designed to meet the rigorous safety requirements of BS 7036:1996 and is installed by Automatic Door Suppliers Association (ADSA) accredited engineers

Standard details for ADSF 1000 single sliding door system

- Supplier — ADSF UK LTD
- Product reference — ADSF 1000 Ertain Model
- Door configuration — Single sliding no fixed panel
Single sliding one fixed panel
- Drive operation — Standard
- Door leaf width — 700mm - 3000mm
- Door height — 2000mm - 3000mm
- Finish — Anodised silver
Polyester powder coated standard BS colours
Polyester powder coated standard RAL colours
- Glazing — As standard
Double glazed - available on request
- Control — Digital Selector or Key switch
- Safety & security — Intelligent self learning movement and presence sensors across door threshold
Rear edge presence sensors for back of door safety
Monitored battery backup (provides up to 30 minutes operation in the event of a mains power failure)

ADSF 1000 Operator

TECHNICAL FEATURES	Operator 1450	Operator 1850
Free passage (2 sliding leaves)	1000-2300mm	1100-3000mm
Free passage (1 sliding leaf)	750-1150mm	1000-1550mm
Max leaf weight (2 leaves)	80 + 80 Kg.	80 + 80 Kg.
Max leaf weight (1 leaf)	120 Kg.	120 Kg.
Max opening speed	0.7 m/s	0.7 m/s
Min opening speed	0.4 m/s	0.4 m/s
Max closing speed	0.5 m/s	0.5 m/s
Min closing speed	0.2 m/s	0.2 m/s
Max closing force	150 N	150 N
Temperature	-20ºC/ +50ºC	-20ºC/ +50ºC
Open door timing	90 seg.	90 seg.
Power suplply (single phase)	220/110 V (single phase)	220/110 V (single phase)
Consumption	100 W	100 W
Battery	Lead (12+12 v)	Lead (12+12 v)

RETURNS NOTE

ADSF 1000 Operator

Please include this form with any items returned			
CUSTOMER DETAILS			
YOUR REFERENCE:			
ACCOUNT NUMBER:		DATE:	
COMPANY NAME:			
CONTACT NAME:			
ADDRESS:			
POSTCODE:			
TEL:			
FAX:		**E-MAIL:**	

Goods	QUANTITY	INVOICE No.	Replacement Ordered	ACTION NEEDED		Fault Description	Date Purchased
				Credit	Repair		

TERMS AND CONDITIONS

ADSF 1000 Operator

1. Goods will not be accepted back without a valid Returns number.
2. Please ensure the relevant invoice is placed inside the component box with a detailed fault report.
3. Please give as much detail as possible regarding your fault report .Reports like **DEAD** or **FAULTY** will not be accepted.
4. All items including swing operators must be sent back complete, we will not accept individual internal components for repair or replacement.
5. Goods found not to be faulty may incur a testing fee handling charge of £10.00 plus vat.
6. Physically damaged items will be rejected.
7. Items may be replaced with equivalents if originals are not available.
8. These items may be repaired or replaced.
9. Refunds and credit notes are issues at Auto Doors & Shopfronts discretion as point 10 below.
10. Re-stocking:
    * The goods have not been installed.
    * The goods are returned as complete items.
    * All packaging, fixing kits and instructions are as new.
    * A re-stocking charge of 15% will be imposed.

Send to ADSF UK LTD Unit 3 Millers Court, Windmill Road, Kenn, Clevedon BS21 6UL

PLEASE SIGN BELOW TO ACCEPT OUR TERMS AND CONDITIONS

Registered Office: 20 –22 Bedford Row, London WC1R 4JS. Registration No. 5287944 VAT No. 811346 362

MAINTENANCE PROGRAM

ADSF 1000 Operator

Maintenance program for swing door ADSF Erreka. **ADSF 1000 Operator**

Each 6 month:

Warning!
Before work on the operator cut main power line.

- Check that all securing screws are well tightened.
- Clean and lubricate moving and sliding components.
- Lubricate closing spring if present.
- Check wiring connections.
- Check that arm connection screw are well tightened.
- Check that the door wing is stable and that the movement is fluent and with no friction from "door open" position up to "door closed" position.
- Check the condition of the hinges and lubricate it.
- Check that speeds, timing, and safety functions are well adjust.
- Check that safety and activation sensor are properly functioning.

Warning!
Any part that appear damaged or worn must be changed.

Make use only of original spare parts; for this purpose check price list.

Check that the doors are compliant to BS EN16005

BS7036 Part 2 1996 - Authorized Technician Checklist

Company Name & Address	Installer Name

Site Address		
	Date	
	Job No	
	Door Location	
	Door Type	**ADSF 1000 Operator**

General Times (s)		
Opening Time	Closing Time	Hold Open Time

Activation Distances (mm)	
Straight Approach	Straight Approach

Closing Energies		
Check Speed (J)	Max Speed (J)	Entrapment (N)

Drawing-In Protection	
Safety Barrier Y/N	Finger Guards Y/N

Safety Devices			
Photocells Y/N	Photocell Height (mm)	Presence Sensor	On Door Safety Sensors

Escape System			
Break Out Doors Y/N	Break Out Force (N)	Battery Back-Up	Battery Settings (F-O / CONT)

Engineers Notes

Signage Affixed / Left on Site

Technician Name	
Technician Signature	
Date & Time	

INSTALLATION WORK SHEET

Company Name & Address	Installer Name

Site Address	Install Date	
	Unit ID No	
	Door Location	

Operators Installed
ADSF 1000 Operator

Activation Devices			
Sensor	Push Pad	Keyfob	Access Control

Safety Devices			
Threshold Sensor	Side Screen Sensor	On Door Sensor	Barriers

Escape System			
Break Out Doors Y/N	Break Out Force (N)	Battery Back-Up	Battery Settings (F-O / CONT)

Repair / Maintenance History

Date	Works Carried Out	Name	Signature

LOG BOOK

ADSF 1000 Operator

Repair / Maintenance History

Date	Works Carried Out	Name	Signature